

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

Claims 1-12 (cancelled).

Claim 13 (new): An intravascular stent, comprising:

a generally cylindrical body including a helically coiled wire, wherein said helically coiled wire has generally sinusoidally-shaped waves;

wherein said generally cylindrical body is capable of radially expanding.

Claim 14 (new): The intravascular stent of claim 13, wherein said helically coiled wire is a low memory metal.

Claim 15 (new): The intravascular stent of claim 13, wherein said generally sinusoidally-shaped waves have a generally uniform amplitude.

Claim 16 (new): The intravascular stent of claim 13, wherein said helically coiled wire generally forms a series of adjacent rows of said sinusoidally-shaped waves, wherein said sinusoidally-shaped waves of each row have a generally uniform amplitude.

Claim 17 (new): The intravascular stent of claim 16, wherein at least one of said sinusoidally-shaped waves of a first row is a longer wave, wherein said longer wave has a larger amplitude than another sinusoidally-shaped wave of said first row.

Claim 18 (new): The intravascular stent of claim 17, wherein said larger wave contacts an adjacent second row.

Claim 19 (new): The intravascular stent of claim 17, wherein said larger wave of said first row extends beyond a point of a sinusoidally shaped wave of an adjacent second row that is closest to said first row.

Claim 20 (new): The intravascular stent of claim 13, wherein a first portion of said stent is capable of being expanded within a human vasculature in a first expanding procedure and a second portion of said stent is capable of being expanded within said human vasculature in a second expanding procedure.

Claim 21 (new): The intravascular stent of claim 20, wherein said first portion of said stent is positioned tandem to said second portion of said stent.

Claim 22 (new): The intravascular stent of claim 20, wherein, when said first portion is previously implanted and expanded, said second portion is capable of being fed through said first portion and subsequently expanded.

Claim 23 (new): The intravascular stent of claim 22, wherein said second portion is expanded downstream from said first portion.

Claim 24 (new): The intravascular stent of claim 13, wherein a portion of said stent is capable of being expanded between an aortic arch and an aortic bifurcation of a human.

Claim 25 (new): The intravascular stent of claim 13, wherein a position of said stent within a human vasculature is visible on a fluoroscope.

Claim 26 (new): An intravascular stent, comprising:

a helically shaped stent body including a wire coiled into a helical shape, wherein said wire comprises a series of undulations, wherein the stent body may be expanded from a first delivery diameter to a second implanted diameter;

wherein said helically shaped stent body generally forms a series of adjacent rows of said undulations,

wherein said undulations of each of said adjacent rows have a generally uniform amplitude,

wherein at least one of said undulations of a first row is a longer undulation, wherein said longer undulation has a larger amplitude than said generally uniform undulations of said first row;

wherein said larger undulation of said first row extends beyond a point of an undulation of an adjacent second row that is closest to said first row;

wherein a first section of said stent is capable of being expanded within a human vasculature in a first expanding procedure and a second section of said stent is capable of being expanded within said human vasculature in a second expanding procedure;

wherein at least a portion of said stent is capable of being expanded between an aortic arch and an aortic bifurcation of a human; and

wherein a position of said stent within said human vasculature is visible on a fluoroscope.

Claim 27 (new): The intravascular stent of claim 26, wherein at least part of said stent is radially expanded by a balloon of a balloon of a balloon catheter.

Claim 28 (new): The intravascular stent of claim 26, wherein said stent is mounted on a balloon of a balloon catheter assembly and expanded to said second diameter upon inflation of said balloon.

Claim 29 (new): The intravascular stent of claim 26, wherein said helically coiled wire is a low memory metal.

Claim 30 (new): The intravascular stent of claim 26, wherein, when said first section is previously implanted and expanded, said second section is capable of being fed through said first section and subsequently expanded.

Claim 31 (new): The intravascular stent of claim 30, wherein said second section is expanded downstream from said first section.

Claim 32 (new): The intravascular stent of claim 26, wherein said larger undulation contacts an adjacent second row.

Claim 33 (new): An intravascular stent, comprising:

- a generally cylindrical body including a helically coiled wire, wherein said helically coiled wire has generally sinusoidally-shaped waves;

- wherein said generally cylindrical body is capable of radially expanding;

- wherein said cylindrical body generally forms a series of adjacent rows of said generally sinusoidally-shaped waves,

- wherein said generally sinusoidally-shaped waves of each of said adjacent rows have a generally uniform amplitude,

- wherein at least one row includes a longer wave, wherein said longer wave has a

larger amplitude than said generally uniform amplitude of said generally sinusoidally-shaped waves of said row.